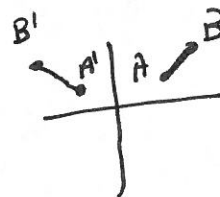


#5

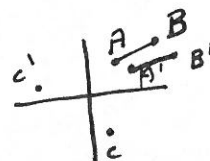
$$a) (x, y) \rightarrow (-x, y)$$

reflection across
y-axis



$$b) (x, y) \rightarrow (y, x)$$

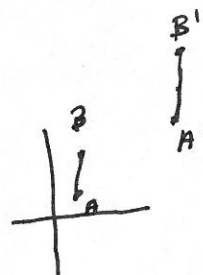
reflection across
 $y = x$



$A(2, 3)$	$A'(3, 2)$
$B(5, 7)$	$B'(7, 5)$
$C(1, -4)$	$C'(-4, 1)$

$$c) (x, y) \rightarrow (8x, 8y)$$

dilation by
 $k=8$ around
the origin

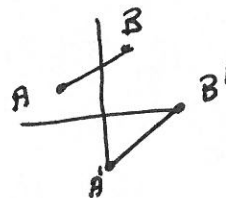


NDS

$A(1, 1)$	$A'(8, 8)$
$B(2, 4)$	$B'(16, 8)$

$$d) (x, y) \rightarrow (x+4, y-7)$$

translation $(4, -7)$



$A(-4, 3)$	$A'(0, -4)$
$B(2, 7)$	$B(6, 0)$

$$e) (x, y) \rightarrow \left(\frac{1}{2}x, \frac{1}{2}y\right)$$

dilation around the
origin by $k = \frac{1}{2}$